			<i>HI</i> 1
	Application No.	Applicant(s)	
Notice of Allowability	10/673,857 Examiner	SUTTER ET AL. Art Unit	
	Zheng Wei	2192	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in (i) or other appropriate commur RIGHTS. This application is su	this application. If not included nication will be mailed in due cou	ırse. THIS
1. This communication is responsive to <u>10/28/2007</u> .			•
2. X The allowed claim(s) is/are 2-12 and 14-15 (renumbered a	as <u>1-13)</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All _ b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents hav 		· (f).	
2. Certified copies of the priority documents hav	e been received in Application	No	
Copies of the certified copies of the priority do	ocuments have been received	in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requir	ements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which given 			ICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ist be submitted.		
(a) including changes required by the Notice of Draftsper	son's Patent Drawing Review	(PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_·		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or i	n the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFR	e drawings in the front (not the ba t 1.121(d).	ck) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note LOGICAL MATERIAL.	e the
Attachment(s)	5 DAGG OF	manal Data at Application	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		ormal Patent Application	
	Paper No./M	lail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🗌 Examiner's A	mendment/Comment	
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's S	tatement of Reasons for Allowa	nce
	9. Other	P	
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DETAILED ACTION

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- 1. This office action is in response to the amendment filed on 10/28/2007.
- 2. Claims 1, 13 and 16-31 have been cancelled.
- 3. Claims 2-12 and 14 –15 have been amended.
- 4. Claims 2-12 and 14-15 remain pending and now being allowed.

Allowable Subject Matter

5. As Applicants amended and rewrote the claims 14 as independent form including all of the limitations of the base claims, neither the closest cited prior art nor the combination of cited prior arts: Tip (Tip et al., Class Hierarchy Specialization) and Pauw (Pauw et al., Visualizing the execution of Java Programs) and Sweeney (Sweeney et al., Extracting Library-Based Object-Oriented) teaches or fairly suggests at least the feature of automatic replacement of object classes including: "determining at least one equivalence class E of declaration elements and expressions that must have a same type; computing a set of possible types of equivalence class E using an optimistic algorithm, wherein this algorithm associates a set S sub E of types with equivalence class E, which is initialized as follows: associating a set S sib E with the equivalence class E containing types C and CustomC if E contains an allocation site expression new C; and associating a set S sub E with equivalence class E containing all types except auxiliary types CT and C^{\perp} , wherein CT and C^{\perp} are intermediate types not provided as output during the generation of custom classes if E does not contain any allocation site

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expressions". The dependent claims are also allowable for at least the same reasons.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zheng Wei whose telephone number is (571) 270-1059 and Fax number is (571) 270-02059. The examiner can normally be reached on Monday-Thursday 8:00-15:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571- 272-1000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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